Application No. 10/052,589 Attorney Docket No. 26473/04200 Response to Office Action

### **REMARKS**

Applicants submit herewith an annotated Fig. 1, showing the proposed drawing corrections with red ink annotations. A nucleotide (T) has been added as shown on sheet 1A. Nucleotides 1444-1497 have been added to sheet 1B as shown. The nucleotide G has been added as shown on sheet 1B. As explained in the response filed November 9, 2004, support for the additions to Figure 1 is found in the original, informal drawings that were submitted with the parent application of the present case, namely U.S. Patent No. 09/568,225, filed on May 10, 2000, which was incorporated by reference in the present application. As they are fully supported by the original disclosure, the additions to the drawings do not add new matter. Additionally, adjustments have been made to pagination of Fig. 1 as indicated in the areas enclosed by brackets. These adjustments have been made to accommodate the appearance of Fig. 1 on three separate sheets. Accordingly, applicants respectfully request approval of the proposed drawing corrections to Fig. 1.

Applicants further submit herewith an annotated Fig. 2, showing the proposed drawing corrections with red ink annotations. The nucleotide numbering on sheet 2E has been corrected due to a typographical error. Accordingly, applicants respectfully request approval of the proposed drawing corrections to Fig. 2.

Finally, Applicants have enclosed clean versions of the Figs. 1 and 2 labeled "Replacement Sheet."

Applicants respectfully submit that the responses of November 12, 2004 and March 7, 2005 have been corrected herein.

If there is any fee due in connection with the filing of this Response, please charge the fee to our Deposit Account No. 03-0172.

Respectfully submitted,

Date: June 29, 2005

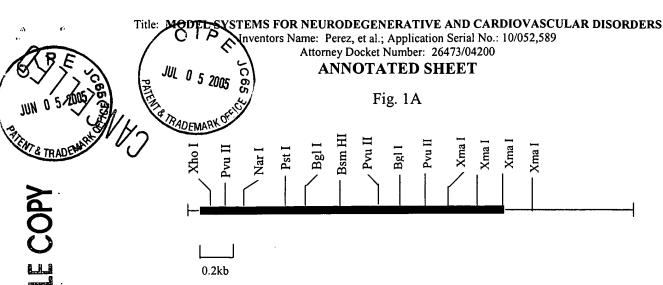
Joan N. Drew

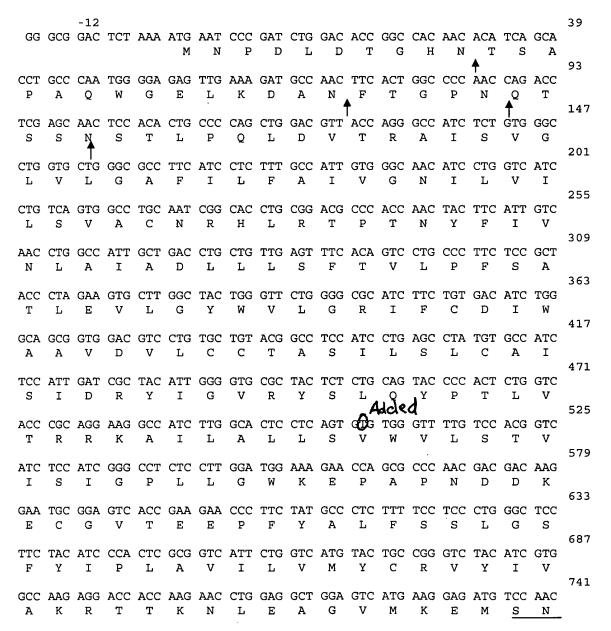
Reg. No. 52,364

(614) 621-7763

(614) 621-0010 (fax)

idrew@calfee.com





### Title: MODEL SYSTEMS FOR NEURODEGENERATIVE AND CARDIOVASCULAR DISORDERS

Inventors Name: Perez, et al.; Application Serial No.: 10/052,589

### Attorney Docket Number: 26473/04200 ANNOTATED SHEET

Fig. 1B

Repaginated TCC AAG GAG CTG ACC CTG AGG ATC CAC TCC AAG AAC TTT CAT GAG GAC ACC CTC R Η S K Н Ε D 849 peptide 1 AGC AGT ACC AAG GCC AAG GGC CAC AAC CCC AGG AGT TCC ATA GCT GTC AAA CTT Α K Н P R S S Ι Α G N 903 TTT AAG TTC TCC AGG GAA AAG AAA GCA GCC AAA ACC TTG GGC ATT GTG GTC GGA E Α K Т G т K K Α 957 ATG TTC ATC TTG TGT TGG CTC CCC TTC TTC ATC GCT CTC CCA CTT GGG TCC CTG Ρ F F Ι Α L Ρ G peptide 2 1011 TTC TCC ACT CTC AAG CCC CCG GAC GCC GTG TTC AAG GTG GTA TTC TGG CTG GGC K P Р D Α V F K 1065 TAC TTC AAC AGC TGC CTG AAC CCC ATC ATC TAC CCG TGC TCC AGC AAG GAG TTC Y Р C S S K C Ν P Ι Ι L 1119 AAG CGC GCC TTC ATG CGT ATC CTT GGG TGC CAG TGC CGT AGT GGC CGT CGC CGC C G R R Ι L G 0 C R 1173 GCG CGC CGT CGT CTG GGC GCG TGC GCT TAC ACC TAT CGG CCG TGG ACG CGC R P W R R L G Α С Α Y Т Y 1227 GGC GGC TCG CTG GAG CGA TCG CAG TCG GGG AAG GAC TCC CTG GAC GAC AGC GGC s K D s L D D S 1281 AGC TGC ATG AGT GGC AGC CAG AGG ACC CTG CCC TCG GCG TCG CCC AGC CCG GGC s G S Q R Т L S 1335 TAC CTG GGT CGC GGA GCG CAG CCA CCG GAG CTG TGC GCC TAC CCC GAA TGG E 1389 AAA TCC GGG GCT CTG CTC AGT CTG CCA GAG CCT CCG GGT CGC CGC GGT CGC CTC S Р Ε P 1443 GAC TCT GGG CCC CTC TTC ACT TTC AAG CTC TTG GGA GAG CCG GAG AGC CCG GGC Added P K 1497 ACC GAG GGC GAT GCC AGC AAT GGG GGC TGC GAC GCA ACG ACC GAC CTG GCC AAT Т Α S N G G C Т Ε G D 1551 GGG CAG CCC GGT TTC AAG AGC AAC ATG CCT CTG GCA CCC GGG CAC TTT TAG GGT Ρ Ν M P peptide 3 1605 CCC TTT TCT TTC CCC CAC ACA CAC CCC AGG GGG GAG GAC ACC ATT GTG GGG GGC 1659 GGG GGC ATG GGG GGG AGT GTC AGC CCC GGG TAG ACA CAG GGT CGC AAG GGT ACA 1713 AGG GGG GAG GGC GGG GAG AGG GGC AGC TGC TTT TCT GGC AGG GGC ATG GCT 1767 GCC AGG TAC AGC GGA GAG CTG GCT GCG CAT GCT GAG AGC CTG GGG ACC CAC CCC 1821 CAA CGC TGG CCG GGA CTT AAG TCT CTC TCT TCT CTC TCT CTG TAT ATA TAT AAA 1875 GAG TCC CTC TAT ACG TAT TTA TCT GTG GGT ACA CGT GCG TGT GTC TGT GCG GTG Added

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1929	ed	toni	pag	Rep			j	.g. 10	Fi									ノ	
1983	TGG	TGC	GCG	TGC	ACT	CCC	CTG	GGC	GGG	GTT	TGT	ATG	TGG	GCA	GCT	TGG	GTG	AAC	•
2037	ACT	TTG	CTC	TGT	GTT	GTT	TTT	AGG	GTC	AAT	GGC	CCT	TGC	GTG	AGT	GCG	AGA	GGC	
2091	GGG	ATG	TTG	ATT	GGC	GCT	AAT	GTC	CTG	TCT	TGT	CCT	CCT	GCC	CAA	TCT	ACC	TGT	
2071		ΔΔΔ	ΔΔΔ	ααα	ΔΔΔ	тса	TCG	ጥጥር	СΔТ	דעע	ΔΔΔ	ΔΤΤ	САТ	тсъ	AAG	ACC	CAD	ፐፐር	

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# ANNOTATED SHEET (as shown on sheet 2E)

# Fig. 2A

	3		9		15	21		27 	33 	3 9 	45 I
1					TGC ACG						
46					CCA GGT						
91					GCA CGT	 _	_				
136		-			TTG AAC						
181					TTT AAA						
226					TGT ACA						
271					GAT CTA						
316					ACA TGT						
361					GGG						
406					AGT TCA						
451					CTC GAG						
496				-	CAA GTT						
541					GCT CGA						CTT GAA
586											AAA TTT
631											ATA TAT
676											CTT GAA

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## ANNOTATED SHEET (as shown on sheet 2E)

# Fig. 2B

721							AAC TTG	
766							CAG GTC	
811							TGG ACC	
856	 	 	 	 	 	 	GCC CGG	 
901							TCT AGA	
946							CCT GGA	
991							AAG TTC	
1036							GTG CAC	
1081							TAG ATC	
1126							GAG CTC	
1171							GAG CTC	
1216							GAG CTC	
1261	 	 	 	 	 	 -	TAG ATC	
1306								AAA TTT
1351								TAT ATA
1396	 						ATG TAC	
1441								TCC AGG

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## ANNOTATED SHEET (as shown on sheet 2E)

# Fig. 2C

1486								AAA TTT
1531								AAA TTT
1576							GGC	
1621							ACA TGT	
1666								TTT AAA
1711							CAA GTT	
1756								TTT AAA
1801	 -							GTA CAT
1846							GAG CTG	
1891								GCA CGT
1936								TCT AGA
1981								TCC AGG
2026								AAC TTG
2071								AAG TTC
2116								CCT GGA
2161								ACC TGG
2206								GGC CCG

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## ANNOTATED SHEET (as shown on sheet 2E)

# Fig. 2D

2251								GTG CAC
2296								AAA TTT
2341								TCT AGA
2386		AAT TTA						
2431								GGA CCT
2476								GGA CCT
2521								TGT ACA
2566								CTA GAT
2611								ATA TAT
2656								ACG TGC
2701								TGC ACG
2746								AGA TCT
2791		-						GGG CCC
2836								GAT CTA
2881								GCA CGT
2926								GCT CGA
2971								GCC CGG

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### ANNOTATED SHEET (as shown on sheet 2E)

# Fig. 2E

3016					ACA TGT					-					
3061	ACA	GTG	GCG	GCA	CGT	CAG									
2100					<b>~</b> 3		7 (7 7	000	<b>a</b> aa	~~~	000	000	~~~	000	000
(3106)					CCG GGC										
					m 3			CGG	CCC	GIG	GGG	GCC	GGG	CCG	CGG
(3151)	GCG	TCC	TCC	ACG.	CGC	יירירי יירירי	רפר	GCC	AGC	CCG	פככ	AGG	רפר	GCC	тса
					GCG										
					n 3										
3196	CGT	GGA	CCA	OTTA	AAC	TTG	GAG	CTC	CCG	CCT	CGT	CCC	CTC	TCT	CCT
	GCA	CCT	GGT	AAT	TTG	AAC	CTC	GAC	GGC	GGA	GCA	GGG	GAG	AGA	GGA
					Se	eq. ‡	‡ 2	sens	se						
					~ 37			•	→						
(3241)					GAC										
					CTG		GCT	CGC	TCG	GCG	ACC	CAC	GTC	CTT	CCG
(3)	len	umb	211	Low	<u>, 3</u> 3	531									
(3286)			•	•	GGC										
	CTG	CAC			CCG				GCC	CCC	TCT	ACT	GAA	GAG	CGG
	~~	امدي			r Sec			ense							
(3331)	AGG	AGG	ACG.		CTG	GAA	<b>P</b> AGA	AGA	CCA	CGG	AGG	GAG	CAA	ΔСΤ	ጥጥር
					GAC										
					347									_ •	
(3378)	AGG	GCA	GCT	GAG	GAG	CTT	TGG	TCG	CAG	CCC	TTC	CGA	GCC	CAA	TCT
	TCC	CĢT	CGA	СТС	CTC	GAA	ACC	AGC	GTC	GGG	AAG	GCT	CGG	GTT	AGA
				—↓ -											
		am bi	er i	~0~	34	ماما									
(3421)			TGG	CTA	TGG	AGG									
	GGA	GGG	ACC	GAT	ACC	TCC	CGC	CTG	AAA	TTT	TAC				